

Title (en)  
ROBOTIC VEHICLE FOR SOIL CULTIVATION

Title (de)  
ROBOTISCHES FAHRZEUG ZUR BODENBEARBEITUNG

Title (fr)  
VÉHICULE ROBOTISÉ POUR LA CULTURE DU SOL

Publication  
**EP 3696574 A1 20200819 (EN)**

Application  
**EP 19157236 A 20190214**

Priority  
EP 19157236 A 20190214

Abstract (en)  
The invention relates to a robotic vehicle (100) for movable operation in a work area (108), the movable operation comprising a soil cultivation, the work area (108) being represented by a set of discretized coordinate grid points (112), the vehicle (100) comprising a Global Navigation Satellite System, GNSS, receiver (106) and a controller (118), the controller (118) comprising a memory (122) and a processor, the memory (122) comprising instructions (124), wherein execution of the instructions (124) by the processor causes the vehicle (100) for each grid point of a subset of the grid points (112) at different first points in time performing an initialization process, the initialization process comprising :- receiving at the first point in time a first set of GNSS signals (114) from a vehicle base (104), the vehicle base (104) being spaced apart from the vehicle (100),- receiving at the first point in time a second set of GNSS signals (116) from the GNSS receiver (106),- determining an accuracy of a location determination, the location determination being based on the second set of GNSS signals (116), the determination of the accuracy being based on a comparison of the signal qualities of the first set of GNSS signals (114) and the second set of GNSS signals (116).

IPC 8 full level  
**G01S 19/28** (2010.01)

CPC (source: CN EP)  
**G01S 19/14** (2013.01 - CN); **G01S 19/28** (2013.01 - EP); **G01S 19/41** (2013.01 - CN); **G01S 19/43** (2013.01 - CN)

Citation (applicant)  
WO 2017092798 A1 20170608 - HUSQVARNA AB [SE]

Citation (search report)  
• [Y] US 2017347521 A1 20171207 - TJERNBERG ISAK [SE], et al  
• [Y] WO 2006132003 A1 20061214 - UNIV TOKYO NAT UNIV CORP [JP], et al  
• [A] US 2013088389 A1 20130411 - YAMADA HIDEKI [JP]

Citation (third parties)  
Third party : anonymous  
EP 3084541 A1 20161026 - HUSQVARNA AB [SE]

Cited by  
CN116784041A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3696574 A1 20200819**; CN 111562602 A 20200821; CN 111562602 B 20240109; EP 3696576 A1 20200819; EP 3696576 B1 20210818

DOCDB simple family (application)  
**EP 19157236 A 20190214**; CN 202010092490 A 20200214; EP 20156617 A 20200211